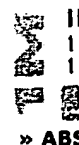


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Blocking artifact reduction in JPEG-coded images

Byung-Jo Chae Chae-Bong Sohn Min Byoung-Ki Seoung-Jun Oh

Dept. of Electron., Kwangwoon Univ., Seoul, South Korea;

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Abstract:

We proposed the post-processing method to reduce the blocking **artifact** in I coded JPEG images, which is based on minimum block-boundary-discontinuity. We analyzed the statistical property of block boundary pixel **difference**, class blocks into one of two types using OSLD (overlapped sub-laplacian distribution) compensated the **quantization** error depending on the type of block, adaptive postprocessing method can provide better visual quality as well as PSNR than method.

Index Terms:

[discrete cosine transforms](#) [image coding](#) [vector quantisation](#) [JPEG-coded images](#) [boundary pixel difference](#) [blocking artifact reduction](#) [low-bit-rate coded JPEG image](#) [block-boundary-discontinuity criterion](#) [overlapped sub-laplacian distribution](#) [post-processing method](#) [postprocessing method](#) [quantization error](#) [statistical property](#) [visual quality](#)

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